What is claimed is:

1. An impeller blade for use in a mixing vessel, comprising:
an inner blade portion angled in a first direction;
an outer blade portion disposed radially outward from the inner blade portion; and

- a connector element that provides radial spacing between respective inner and outer blade portions.
- 2. An impeller according to claim 1, wherein the inner blade portion is twisted.
- 3. An impeller according to claim 1, wherein the outer blade portion is twisted.
- 4. An impeller according to claim 1, wherein the inner blade portion is twisted, and the outer blade portion is twisted.
- 5. An impeller according to claim 1, wherein the connector is a cylindrical rod.
 - 6. An impeller for use in a mixing vessel, comprising:

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a hub;

at least two inner blade portions disposed radially outward from the hub and angled in a first direction;

at least two outer blade portions disposed radially outward from respective inner blade portions; and

at least two a connector elements that each provide radial spacing between respective inner and outer blade portions.

- 7. An impeller according to claim 5, wherein the inner blade portions are twisted.
- 8. An impeller according to claim 5, wherein the outer blade portions are twisted.
- 9. An impeller according to claim 5, wherein the inner blade portions are twisted, and the outer blade portions are twisted.
- 10. An impeller according to claim 5, wherein the connector is a cylindrical rod.



An impeller for use in a mixing vessel, comprising:

at least two inner blade portions angled in a first direction;



at least two outer blade portions disposed radially outward from respective inner blade portions; and

means for providing radial spacing between respective inner and outer blade portions.

- 12. An impeller according to claim 11, wherein the inner blade portions are twisted.
- 13. An impeller according to claim 11, wherein the outer blade portions are twisted.
- 14. An impeller according to claim 11, wherein the inner blade portions are twisted, and the outer blade portions are twisted.
- 15. An impeller according to claim 11, wherein the connector is a cylindrical rod.
- 16. A method for mixing material in a mixing vessel using an impeller, the method comprising the steps of:

forcing the material in a first direction using a blade disposed radially outwardly from a hub; and

forcing the material in a second direction opposite to the first

direction using a second blade that is disposed radially outward from the first blade with a radial space provided between the first and second blades.

- 17. A method according to claim 1, wherein the first blade portion is twisted.
- 18. An impeller according to claim 16, wherein the second blade portion is twisted.
- 19. A method according to claim 16, wherein the first and second portions are both twisted.
- 20. A method according to claim 16, wherein the connector is a cylindrical rod.